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ACD-NC150-2606

PRODUCT DATA SHEET

6/16/2015

15.0" XGA LED BACKLIT TFT DISPLAY

Sunlight Readability/1000:1 dimming/Cool operation

GENERAL DESCRIPTION

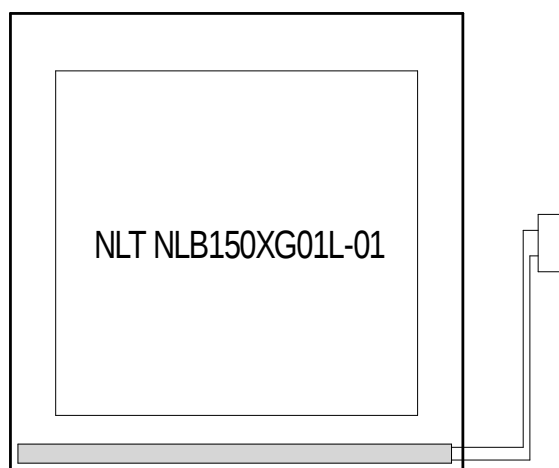
The ACD-NC150-2606 consists of the NLT NLB150XG01L-01 XGA TFT display modified with a high performance LED backlight.

Performance at given brightness levels

1000 cd/m² with 22 watts LED power

Display outline identical to standard LED equipped panel

For many applications, satisfies sunlight readability goals



LCD PANEL HIGHLIGHTS

15.0" TFT Active Matrix Color

304.128 (H) mm x 228.096 (V) mm viewable area

XGA 1024 x 768 pixels, 16.7M colors

600:1 typical contrast ratio

60% color gamut (NTSC color space)

Display Mode Normally White

For complete LCD specification (standard panel), refer to NLT NLB150XG01L-01 data sheet.

LED BACKLIGHT FEATURES

White LED edge-light rail

Two wire connection (Typically 11 inches long), allows simple interconnect with LED driver¹

Projected lifetime > 75,000 hours

1000:1 or better dimming ratio, guaranteed¹

¹ For best power transfer and control, use ACI-2668 LED driver. Do not set the driver output current (Ifwd) higher than the value specified in the Maximum Ratings table of this document. Please contact the factory for more specific use LED driver solutions if required.

* MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
Top ¹	Operating temperature of display (center of panel surface)	-20 to +70	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-30 to +75	Deg-C
Tstg ¹	Display storage temperature	-30 to +80	Deg-C
Ifwd	Maximum LED edge-light forward current (DC)	92	mA

* Maximum Ratings are those values beyond which damage to the driver may occur

¹ Per Manufactures Specification

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 76.6mA per bank, LED rail ACR-0923-2258, 3 banks per rail, 1 rail per display, Ta = +25Deg-C, moving air (36.0 CFM), min 2hr soak

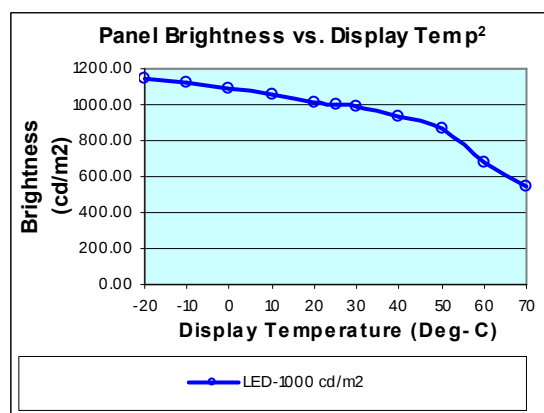
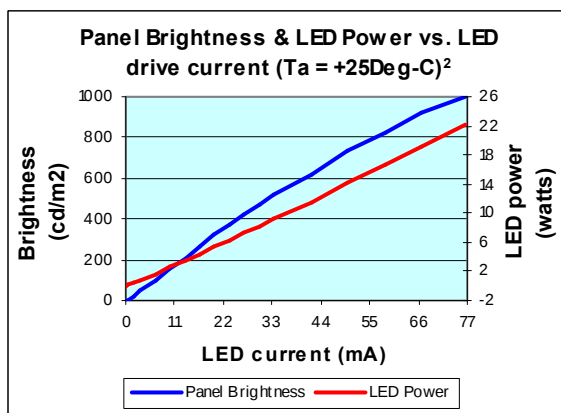
Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		900	1000	1100	cd/m ²
X	White X coordinate			0.269		-
Y	White Y coordinate			0.284		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 76.6mA per bank, 3 banks per rail, 1 rail per display, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		86	96	106	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS



² Moving air (36.0 CFM)